24430.13

			U.S. PATENT DOCUME	NTS	
Examiner Initials*	Cite No.1	U.S. Patent Document Kind Code ^a Number (if known)	l l	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
m	AA	5,993,441	Muller et al.	Nov. 30, 1999	

Attorney Docket Number

1

Sheet

1

				FOREI	GN PATENT DOCUMENTS			
Examiner Initials*	Cite No.	Fore	eign Patent Docum	Kind Code (If known)	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	Т
Jam	AB	DE	199 26 476	A1	Wavelight Laser Technologie GmbH	12/14/2000		Т

		OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS	
Examiner Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or county where published.	T²
m	AC	GAILITIS et al, Solid State Ultraviolet Laser Ablation of the Cornea and Synthetic Collagen Lenticules, Vol. 105, Sept. 1987, Pages 5 5 6-562.	

Evaminer	/ /	Dete	
Examiner		Date	11 1/2000
Signature	(S)	Considered	Spart 4, 2002

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

3739

Rudolph W. Frey

Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Office; U.S. DEPARTMENT OF COMMERCE

Complete If Known

Application Number

O9/745,285

Filing Date

12/21/2000

First Named Inventor

Group Art Unit

STATEMENT BY APPLICANT
(use as many sheets as necessary)

				Data of Bublication	Pages, Columns, Lines,
Examiner Initials*	Cite No.	U.S. Patent Documer Kind Co Number (if know	de of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Where Relevant Passages or Relevant Figures Appear
m	AA	3,880,501	Munnerlyn	Apr. 29, 1975	rigures Appear
- J//-	-AB	4,069,823	Isakov et al	Jan. 24, 1978	
m	AC	4,523,821	Lang et al.	June 18, 1985	
	AD-	4.579,430	Bille	Apr. 1, 1986	
)w	AE	4,632,528	Yoshino et al.	Dec. 30, 1986	
	AF	4,669,466	L'Esperance	June 2, 1987	
Jan-	AG	4,688,941	Philbert	Aug. 25, 1987	
<u> </u>	AH	4,702,245	Schröder et al	Oct. 27, 1987	The second secon
	-AI	4,718,418	L'Esperance, Jr.	Jan. 12, 1988	
	AJ	4,721,379	L'Esperance		
	AK-	4,729,372	L'Esperance, Jr.	Mar. 8, 1988	
Jan-	AL	4,750,818	Cochran	Jun. 14, 1988	
3~	AM	4,764,930	Bille et al	Aug. 16, 1988	174.14.14.
Jan .	AN	4,838,679	Bille	June 13, 1989	
·	-AQ	4,848,340	Bille et al	Jul_18, 1989	
	AP	4,881,808	- Bille et al	Nov. 21, 1989	
	AQ	4,901,718	Bille et al	Feb. 20, 1990	
gr-	AR	4,907,586	Bille et al	Mar. 13, 1990	
	AS	4,941,093	Marshall et al	Jul. 10, 1990	
	ΑT	4,972,836	Schenck et al	Nov. 27, 1990	
m	AU	4,988,348	Bille	Jan. 29, 1991	
Jun-	AV	4,991,953	Pflibsen et al.	Feb. 12, 1991	
gm	AW	5,026,977	Hubbard, Jr.	Jun. 25, 1991	
Jm/	AX	5,062,702	Bille	Nov. 5, 1991	
~~	AY	5,106,183	Yoder, Jr.	Apr. 21, 1992	
~~	ΑZ	5,114,628	Höfer et al.	May 19, 1992	

	/			
Examiner Signature	shan)	Date Considered	April	6,2002

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through ditation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO

INFORMATION DISCLOSURE
STATEMENT BY APPLICANT

(use as many sheets as necessary)

2

Sheet

of

Application Number	09/745,285
Filing Date	12/21/2000
First Named Inventor	Rudolph W. Frey
Group Art Unit	3739
Examiner Name	
Attorney Docket Number	24430.13

Complete If Known

		<u> </u>				
Examiner	Cite	U.S. Patent Doct		Name of Patentee or Applicant	Date of Publication of Cited Document	Pages, Columns, Lines, Where Relevant
Initials*	No.		nd Code known)	of Cited Document	MM-DD-YYYY	Passages or Relevant Figures Appear
Dr.	BA	5,139,022		Lempert	Aug. 18, 1992	
m	BB	5,147,352		Azema et al	Sep. 15, 1992	
dm	BC	5,159,361		Cambier et al.	Oct. 27, 1992	
m	BD	5,177,511		Feuerstein et al.	Jan. 5, 1993	
m	BE	5,184,157		Ichihashi et al.	Feb. 2, 1993	
June	BF	5,196,006		Klopotek et al	Mar. 23, 1993	
dw	BG	5,198,845		Triller	Mar. 30, 1993	
Jun	вн	5,202,709		Ischihashi et al.	Apr. 13, 1993	
dur	BI	5,214,456		Gersten	May 25, 1993	
Jon	BJ	5,221,834		Lisson et al	Jun. 22, 1993	
gm	BK	5,229,889		Kittell	July 20, 1993	
m	BL	5,233,174		Zmek	Aug. 3, 1993	
dm	ВМ	5,243,367		Spellitz	Sept. 7, 1993	
do	BN	5,246,435		Bille et al	Sep. 21, 1993	
Jm	во	5,258,791		Penney et al	Nov. 2, 1993	
an	BP	5,263,950		L'Esperance, Jr.	Nov. 23, 1993	
John '	BQ	5,279,611		McDonnell et al	Jan. 18, 1994	
an	BR	5,293,871		Reinstein et al.	Mar. 15, 1994	
Do	BS	5,298,971		Huang et al	Mar. 29, 1994	
an	вт	5,307,097		Baker	Apr. 26, 1994	
am	BU	5,324,281		Muller	Jun. 28, 1994	
m	BV	5,334,190		Seiler	Aug. 2, 1994	
am	BW	5,339,121		Shimmick et al	Aug. 16, 1994	
du	вх	5,360,424		Klopotek	Nov. 1, 1994	
dow	BY	5,395,356	-	King et al	Mar. 7, 1995	
m	BZ	5,404,884		Lempert	Apr. 11, 1995	

Examiner Signature	Mart show	Date Considered	April 6, 2002

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.





Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO

INFORMATION DISCLOSURE
STATEMENT BY APPLICANT

(use as many sheets as necessary)

(use	as	many	sneets	as	necessary)

Sheet	3	of	9
Silect	J	0,	ľ

Comp	olete If Known
Application Number	09/745,285
Filing Date	12/21/2000
First Named Inventor	Rudolph W. Frey
Group Art Unit	3739
Examiner Name	
Attorney Docket Number	24430.13

Examiner	Cite	U.S. Patent Document	Name of Patentee or Applicant	Date of Publication of	Pages, Columns, Lines, Where Relevant
Initials*	No.	Number (if known)	of Cited Document	Cited Document MM-DD-YYYY	Passages or Relevant Figures Appear
-	CA-	5,410,376	Cornsweet et al	Apr. 25, 1995	
Jun .	СВ	5,411,501	Klopotek	May 2, 1995	
m	CC	5,423,801	Marshall et al	Jun. 13, 1995	
gm	CD	5,437,658	Muller et al	Aug. 1, 1995	
m	CE	5,439,462	Bille et al	Aug. 8, 1995	
Jw/	CF	5,442,412	Frey et al.	Aug. 15, 1995	
m	CG	5,452,031	Ducharme	Sept. 19, 1995	
Jun .	СН	5,461,212	Seiler et al	Oct. 24, 1995	
Sw	CI	5,473,392	Klopotek	Dec. 5, 1995	
m	CJ	5,474,548	Knopp et al	Dec. 12, 1995	
Jm.	CK	5,475,452	Kuhn et al.	Dec. 12, 1995	
m	CL	5,491,524	Hellmuth et al.	Feb. 13, 1996	
m	СМ	5,493,391	Neal et al.	Feb. 20, 1996	
Jm	CN	5,502,518	Lieberman	Mar. 26, 1996	
Jw	СО	5,505,723	Muller	Apr. 9, 1996	
m	CP	5,507,741	L'Esperance, Jr.	Apr. 16, 1996	
m	CQ	5,512,965	Snook	Apr. 30, 1996	
m	CR	5,512,966	Snook	April 30, 1996	
gm	CS	5,521,657	Klopotek	May 28, 1996	
June	CT	5,548,354	Kasahara et al.	Aug. 20, 1996	
Jung	CU	5,556,395	Shimmick et al	Sep. 17, 1996	
Som	CV	5,563,709	Poultney	Oct. 8, 1996	
Jm.	CW	5,570,142	Lieberman	Oct. 29, 1996	
m	CX	5,581,347	Le Saux et al.	Dec. 3, 1996	
Jun	CY	5,592,246	Kuhn et al.	Jan. 7, 1997	
m	CZ	5,629,765	Schmutz	May 13, 1997	

Examiner Signature Stard Shar	Date Considered	April 6, 2000

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Sheet

INFORMATION DISCLOSURE
STATEMENT BY APPLICANT

(use as many sheets as necessary)

of

9

Complete If Known			
Application Number	09/745,285		
Filing Date	12/21/2000		
First Named Inventor	Rudolph W. Frey		
Group Art Unit	3739		
Examiner Name			
Attorney Docket Number	24430 13		

Examiner	Cite	U.S. Patent Document	Name of Patentee or Applicant	Date of Publication of Cited Document	Pages, Columns, Lines, Where Relevant
Initials*	No.	Kind Code Number (if known)	of Cited Document	MM-DD-YYYY	Passages or Relevant Figures Appear
m	DA	5,632,282	Hay et al	May 27, 1997	
m	DB	5,632,742	Frey et al:	May 27, 1997	
dow	DC	5,673,096	Dorsel et al.	Sep. 30, 1997	
don	DD	5,684,545	Dou et al	Nov. 4, 1997	
du	DE	5,711,762	Trokel	Jan. 27, 1998	
"m	DF	5,722,427	Wakil et al.	Mar. 3, 1998	
m	DG	5,735,283	Snook	Apr. 7, 1998	
m	DH	5,735,843	Trokel	Apr. 7, 1998	
do	DI	5,740,803	Gray et al.	Apr. 21, 1998	
m	DJ	5,757,463	Kohayakawa	May 26, 1998	
In	DK	5,777,719	Williams et al.	July 7, 1998	
Dow	DL	5,784,146	Nanjo et al.	July 21, 1998	
an	DM	5,785,704	Bille et al.	July 28, 1998	
m	DN	5,822,035	Bille	Oct. 13, 1998	
du	DO	5,825,476	Abitol et al.	Oct. 20, 1998	
du	DO	5,841,511	D'Souza et al.	Nov. 24, 1998	
du	DQ	5,847,804	Sarver et al.	Dec. 8, 1998	
Jun-	DR	5,861,955	Gordon .	Jan. 19, 1999	
Jan-	DS	5,864,381	Neal et al:	Jan. 26, 1999	
don	DT	5,920,373	Bille	July 6, 1999	
m	DU	5,936,720	Neal et al.	Aug. 10, 1999	
am	DV	5,943,117	Van De Velde	12/99	
June	DW	5,949,521	Williams et al.	Sept. 7, 1999	
dr-	DX	5,963,300	Horwitz	Oct. 5, 1999	
Dru-	DY	5,966,197	Yee	Oct. 12, 1999	
340	DZ	5,994,687	Chanteloup et al.	Nov. 30, 1999	

Signature / Land Shay Considered April 6, ves	Examiner Signature	1/ Bull Stan /	Date Considered	
---	-----------------------	----------------	--------------------	--

*EXAMINER: Initial if reference considered whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

Upter the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

. 8				Complete If Клоwл		
RADEMARDStrute	for form 1449A/P	то		Application Number	09/745,285	
	RMATION			Filing Date	12/21/2000	
STAT	EMENT B	Y APPLIC	CANT	First Named Inventor	Rudolph W. Frey	
(use as many sheets as necessary)			y)	Group Art Unit	3739	
				Examiner Name		
Sheet	5	of	9	Attorney Docket Number	24430.13	

Examiner	Cite	U.S. Patent Document	Name of Patentee or Applicant	Date of Publication of Cited Document	Pages, Columns, Lines, Where Relevant
Initials*	No.	Number (if known		MM-DD-YYYY	Passages or Relevant Figures Appear
Dm-	EA	6,007,204	Fahrenkrug et al.	Dec. 28, 1999	
gu-	EB	6,043,885	Mazuet et al.	Mar. 28, 2000	
Ju-	EC	6,050,687	Bille et al.	Apr. 18, 2000	
2	ED	6,057,913	Brown et al.	May 02, 2000	
<i>y</i> -	ËЕ	6,086,204	Magnanté	Jul. 11, 2000	
7	ΈF	6,095,651	Williams et al.	Aug. 1, 2000	
2	ĖG	6,155,684	Bille et al.	Dec. 05, 2000	

			F	OREIG	IN PATENT DOCUMEN	TS		
Examiner Initials*	Cite No.	Office		Kind Code (If known)	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	Т
	EH	PCT	WO 87/05205	+	G. Rodenstock Instrumente Gmbh	Sept. 11, 1987		
	ЕТ	РСТ	WO 87/06478		Institut National De La Sante Et De La	Nov. 5, 1987		
	EJ	PCT	WO 92/01417		Recherche Medicale Horwitz, Larry S.	Feb. 6, 1992		-
	EK	JP	5-146409		Topcon Corp.	June 15, 1993		$+_{T}$
	EL	JP	6-327634		Topcon Corp.	Nov. 29, 1994		T
	EM	wo	95/28989		Autonomous - Technologies Corp.	Nov. 2, 1995		
	EN-	EP-	0 697 611	A3	Carl Zeiss	Feb. 21, 1996		T
	EO	EP	0 697 611	A2	Carl Zeiss	Feb. 21, 1996		T
-	EP	DE-	42 22 395	A1	Meyer-Roedern	Jan. 13, 1994		+-
	EO	PCT	WO 98/27863		University of Rochester	July 2, 1998		T

	Examiner Signature	down than	Date Considered April 6, 2002	
--	-----------------------	-----------	-------------------------------	--

^{*}EXAMINER: Initial if reference considered. Whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁶ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

SUnder the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number. DEALER DIBStitute for form 1449A/PTO Complete If Known Application Number 09/745,285 INFORMATION DISCLOSURE Filing Date 12/21/2000 STATEMENT BY APPLICANT First Named Inventor Rudolph W. Frey (use as many sheets as necessary) Group Art Unit 3739 Examiner Name 9 Sheet Attorney Docket Number 24430.13

Examiner	Cite	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the	
nitials	No.	item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or county where published.	Т
	ER	PULIANTO, et al., "High-Speed-Photography of Excimer Laser Ablation of the Cornea," Arch Ophithalmol, Vol. 105, Sept. 1987, pages 1255-1259.	$\frac{1}{2}$
	ES	LIANG, et al., "Objective Measurement of Wave-Aberrations of the Human Eye with the Use of a Hartmann-Shack Wave-front Sensor," <i>J. Opt. Soc. Am. A</i> , Vol. 11, No. 7, July 1994, pages 1949—1957.	
	ET	WU, "Supernormal Vision, a Focus on Adaptive Optics Improves Images of the Eye and Boosts Vision," Science News, Vol. 152, November 15, 1997, pages 312-313.	-
	EU -	DREHER, et al., "Active Optical Depth Resolution Improvement of the Laser Tomographic Scanner," Applied Optics, Vol. 28, No. 4, February 1989, pages 804-808.	
	EV	GEARY, "Appendix 1.1 - Basic Geometrical Optics, Chapter 6 - Indirect Wavefront Measurement, Part II," and "Chapter 7 - Wavefront Sensor Characterization & Calibration," Introduction to Wavefront Sensors, May 1995, pages 10-11, 89-103, and 105-109.	7
	EW	"Scientists Snap Sharpest Pictures of Living Human Retina," http://www.rochester.edu/pr/rcleases/opt/will.htm, October-3, 1994.	
	EX	THE APPLIED OPTICS GROUP, "Shack Hartmann Sensors," http://op.ph.ic.ac.uk/ao/sh_sense.html_June 4, 1996, pages 1-3.	_
	EY	THE APPLIED OPTICS GROUP, "Results from UKIRT," http://op.ph.ie.ac.uk/ao/ukirt-res.html, February 22, 1995, pages 1-2.	-
	EZ.	THE APPLIED OPTICS GROUP, "Astronomical Imaging Through Turbulence: An Overview," http://op.ph.ic.ac.uk/ao/overview.html , June 4, 1996, pages 1-4.	
	-FA	.eESA, WPS, "Wave Front Sensor," http://esapub.esrin.esa.it/pointtotest/test251.html, May 23, 1997, pages 1-2.	
	-FB-	WILLIAMS, "Limits of Human Vision," http://www.cvs.rochester.edu/people/d_williams/d_williams.html, December 30, 1998, pages 1-4.	
/ /	-FC	"Extensions of Low-Cost Adaptive Optics: Imaging of Space-Objects, the Retina, and Power Projection," Industrial Sensors and Actuators, dated Dec. 1993 (actual publication date, if any, unknown), pp. 1, 10, and 15.	

	Examiner Signature Sand Sha	Date Considered	April 6, 2002
--	-----------------------------	--------------------	---------------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. ² Applicant is to place a check mark here if English language Translation is attached.

09/745,285

12/21/2000

Rudolph W. Frey

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Complete If Known bstitute for form 1449A/PTO Application Number INFORMATION DISCLOSURE Filing Date STATEMENT BY APPLICANT First Named Inventor (use as many sheets as necessary) Group Art Unit

3739 Examiner Name Sheet Attorney Docket Number 24430.13

		OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS	
Examiner Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or county where published.	T ²
	FD.	LABJUHN, et al., "Astigmatismuskorrektur durch Laserthermokeratoplastik (LTK) – Ein Ansatz für die Korrektur des hohen Astigmatismus nach Perforierender Keratoplastik, Contactologia 18D (1996), pp. 175-183.	//
	FE	COHEN, et al., "Assessment of the Power and Height of Radial Aspheres Reported by a Computer-assisted Keratoscope," American Journal of Ophthalmology, Vol. 119, Vol. No. 6, Nov. 30, 1994, pp. 723-732.	-
	FF	CORBETT, et al., "The Topography of the Normal Cornea," Eur J Implum Ref Surg., Vol. 6, Oct., 1994, pp. 286-297.	
(]	FG	MAEDER, et al., "Accurate 3D Corneal Surface Measurement Using an Automated Mapping———————————————————————————————————	
	EH	SALMON, et al., "Comparison of Elevation, Curvature, and Power Descriptors for Corneal Topographic Mapping," Optometry & Vision Science, Vol. 72, No. 11, 1195, pp. 800-808.	
	PI -	PAVLOPOULOS, et al, "The Effect of Artificial Tears on Computer-assisted Corneal Topography in Normal Eyes and After Penetrating Keratoplasty," <i>American Journal of Ophthalmology</i> , Vol. 119, June 1995, pp. 712-722.	
	FI	ROBERTS, "Characterization of the Inherent Error in a Spherically Biased Corneal Topography System in Mapping a Radially Aspheric Surface," Journal of Refractive & Corneal Surgery, Vol. 10, March/April 1994, pp. 103-111.	
	FK	THORNTON, "Clinical Evaluation of Corneal Topography," J. Cataract Refract. Surg., Vol. 19, Supplement 1993, pp. 198-202.	
	FL-	-RABINOWITZ, et al., "Computer-assisted Corneal Topography-in-Keratoconus," Refractive-&	
	FM	WILSON, et al., "Accuracy and Precision of the Corneal Analysis System and the Topographie Modeling-System," Cornea, Vol. 11, No. 1, 1992, pp. 28-35.	-
	FN_	BOGAN, et al., "Computer-assisted Videokeratography of Corneal Topography After Radial Keratotomy, Arch. Ophthalmol., Vol. 109, June 1991, pp. 834-841.	
	FO	BOGAN, et al., "Classification of Normal Corneal Topography Based on Computer-assisted Videokeratography," Arch. Ophthalmol., Vol. 108, July 1990, pp. 945-949.	

ExaminerSignature	david stay	Date Considered	Aprill, rose
CHIAL CO COD T	1:0 0		'

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. ² Applicant is to place a check mark here if English language Translation is attached.



Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Complete If Known MAD MARY Substitute for form 1449A/PTO Application Number 09/745,285 INFORMATION DISCLOSURE Filing Date 12/21/2000 STATEMENT BY APPLICANT First Named Inventor Rudolph W. Frey (use as many sheets as necessary) Group Art Unit 3739 Examiner Name Sheet Attorney Docket Number 24430.13

	OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS			
Examiner Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or county where published.	T ²	
	FP	REIDY, et al., "The Corneal Topography of Epikeratophakia," Refractive & Corneal Surgery, Vol. 6, Jan./Feb. 1990, pp. 26-31.		
	FQ-	DINGELDEIN, et al., "The Topography of Normal Corneas," Arch. Ophthalmol, Vol. 107, April 1989, pp. 512-518.		
	FR	McDONNELL, ct al., "Topographic Analysis and Visual Acuity After Radial Keratotomy," American Journal of Ophthalmology, Vol. 106, No. 6, December 1988, pp. 692-695.		
	FS_	MeDONNELL, et al., "Corneal Topographic Changes After Radial Keratotomy," <i>Ophthalmology</i> , Vol. 96, No. 1, January 1989, pp. 45-49.		
	FT_	KIELY, et al., "The Mean Shape of the Human Cornea," Optica Acta, Vol. 29, No. 8, 1982, pp. 1027-1040.		
	_EU	BAFNA, et al., "Corneal Power Calculated by the Paraxial Pormula and Snell's Law in Normal Corneas," Investigative Ophthalmology & Visual Science, Vol. 37, No. 3, February 1996, Poster No. 2589.		
,	FV	MATALLANA, et al, "3-D Video Corneal Topography Truc Elevation Mapping," Investigative Ophthalmology & Visual Science, Vol. 37, No. 3, February 1996, Poster No. 2590.		
	FW	AOYAMA, et al, "Quantitative Evaluation of Corneal Astigmatism Using Computer Corneal Topography and Newly Developed Software," Investigative Ophthalmology & Visual Science, Vol. 37, No. 3, February 1996, Poster No. 2591.		
)	FX	CELIKKOL, et al, "Neural Network Analysis of Videokeratography Following Excimer Laser Photorefractive Keratectomy," <i>Investigative Ophthalmology & Visual Science</i> , Vol. 37, No. 3, February 1996, Poster No. 2592.		
	-FY-	WALSH, et al., "Objective Technique for the Determination of Monochromatic Aberrations of the Human Eye," J. Opt. Soc. Am. A, Vol. 1, No. 9, Sept. 1984, pp. 987-992.		
(FZ—	WILLIAMS, et al., "Adaptive Optics for High Resolution Retinal Imaging," Investigative Ophthalmology & Visual Science, Vol. 37, No. 3, February 1996, p. 1055.		

	Examiner Signature	david shar	Date Considered	April 6, 2002
--	-----------------------	------------	--------------------	---------------

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. ² Applicant is to place a check mark here if English language Translation is attached.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet 9 of 9

respond to a collection of information unless it contains a valid OMB control number. Complete If Known		
Application Number	09/745,285	
Filing Date	12/21/2000	
First Named Inventor	Rudolph W. Frey	
Group Art Unit	3739	
Examiner Name		
Attorney Docket Number	24430.13	

	OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS				
Examiner Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or county where published.	T ²		
	GA	CHARMAN, "Wavefront Aberration of the Eye: A Review," <i>Optometry and Vision Science</i> , Vol. 68, No. 8, pp. 574-583.			
	-GB-	BARTSCH, et al., "Resolution Improvement in Confocal Scanning Laser Tomography of the Human Fundus," 1994 Technical Digest Series, Vol. 2 (Optical Society of America, Washington D. C.), 1994, pp. 134-137.			
	GC	DREHER, et al., "Active Optical Depth Resolution Improvement of the Laser Tomographic Scanner," Applied Optics, Vol. 28, No. 4, Feb. 1989, pp. 804-808.			
	GD_	BILLE, et al., "Scanning Laser Tomography of the Living Human Eye," Noninvasive Diagnostie Techniques in Ophthalmology, Chapter 28, edited by Masters, B.R., Springer-Verlag, 1990, pp. 528- 547.			
-	GE	LIANG, JUNZHONG, A New Method to Precisely Measure the Wave Aberrations of the Human Eye with a Hartmann Shack Wavefront Sensor, Inaugural Dissertation, December 1991, pages 1-115, Heidelberg, Germany.			
	GE	BILLE, et al., "Imaging of the Retina by Scanning Laser Tomography," New Methods in Microscopy and Low Light Imaging, Vol. 1161, 1989, pages 417-425.			
	GG	CUBALCHINI, "Modal Wave-front Estimation from Phase Derivative Measurements," J. Opt. Soc. Am., Vol. 69, 1979, pages 972-977.			
	GH	"Modal Wave-front Estimation from Phase Derivative Measurements," Referenced in Bille, U.S. Patent No. 5,062,702-IDS, 1990.			
	GI	FREISCHLAD, et al., "Modal Estimation of a Wave Front from Difference Measurements Using the Discrete Fourier Transform," J. Opt. Soc. Am., Vol. 3, No. 11, November 1986, pages 1852-1861.			
	GJ	KLYCE, et al., "Imaging, Reconstruction, and Display of Corneal Topography," New Methods in Microscopy and Low Light Imaging, Vol. 1161, 1989, pages 409-416.			
	-GK	BAKER, "Optical Surface Testing of the Cornea," New Methods in Microscopy and Low Light Imaging, Vol. 1161, 1989, pages 427-437.	> -		
	GL	SOUTHWELL, "Wave-front Estimation from Wave-front Slope Measurements," J. Opt. Soc. Am., Vol. 70, No. 8, August 1980, pages 998-1005.			

	Examiner Signature	Aif X	Date Considered	April 6, 2002
--	-----------------------	-------	--------------------	---------------

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. ² Applicant is to place a check mark here if English language Translation is attached.